



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/751,736
				Filing Date	January 6, 2004
				First Named Inventor	R. V. MARTINEZ <i>et al.</i>
				Art Unit	1642
				Examiner Name	Lei Yao
Sheet	1	of	3	Attorney Docket Number	031896-002000 (AM100927)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code* (if known)			
U		U.S. - 5,965,403	07-06-1999	TULLIS, R. H.	
		U.S. - 6,506,559	01-14-2003	FIRE, A. <i>et al.</i>	
		U.S. - 4,554,101	11-19-1985	HOPP, T.P.	
		U.S. - 4,419,446	01-14-2003	FIRE, A. <i>et al.</i>	
		U.S. - 4,798,885	11-19-1985	HOPP, T.P.	
		U.S. - 5,141,905	10-17-1995	MODRICH, P. <i>et al.</i>	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
U		WO 03/009814 A2	02-06-2003	SCHLEGEL, R. <i>et al.</i>		
		WO 99/497354 A1	10-07-1999	KRUH, G. <i>et al.</i>		
		WO 04/016810 A2	02-26-2004	SCHWIDETZKY, U.		
		WO 03/104404 A2	12-18-2003	EBNER, R.		
		WO 02/079238 A2	10-10-2002	EULENBERG, K. <i>et al.</i>		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
U		BURGER, M. J. <i>et al.</i> , Expression analysis of δ -catenin and prostate-specific membrane antigen: their potential as diagnostic markers for prostate cancer, <i>Int. J. Cancer</i> , 100(2):228-237, 2002	
U		CHEN, Z.-S. <i>et al.</i> , Analysis of Methotrexate and Folate Transport by Multidrug Resistance Protein 4 (ABCC4): MRP4 Is a Component of the Methotrexate Efflux System, <i>Cancer Res.</i> , 62:3144-3150, 2002	

Examiner Signature		Date Considered	2-16-06
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/751,736
				Filing Date	January 6, 2004
				First Named Inventor	R. V. MARTINEZ <i>et al.</i>
				Art Unit	1642
				Examiner Name	Lei Yao
Sheet	2	of	3	Attorney Docket Number	031896-002000 (AM100927)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
WJ		COLSTON, J. T. <i>et al.</i> , Ca ²⁺ channel alpha 1-subunit transcripts are differentially expressed in rat pheochromocytoma (PC12) cells following nerve growth factor treatment, <i>Int. J. Dev. Neurosci.</i> , 16(5):379-389, 1998	
		DJAMSHIDIAN, A. <i>et al.</i> , Altered expression of voltage-dependent calcium channel alpha(1) subunits in temporal lobe epilepsy with Ammon's horn sclerosis, <i>Neuroscience</i> , 111(1):57-69, 2002	
		EPSTEIN, L. H. <i>et al.</i> , Dopamine transporter genotype as a risk factor for obesity in African-American smokers, <i>Obes. Res.</i> , 10(12):1232-1240, 2002	
		FEIGELSTOCK, D. <i>et al.</i> , The human homolog of HAVcr-1 codes for a hepatitis A virus cellular receptor, <i>J. Virol.</i> , 72(8):6621-6628, 1998	
		HONKE, K. <i>et al.</i> , Cancer-associated Expression of Glycolipid Sulfotransferase Gene in Human Renal Cell Carcinoma Cells, <i>Cancer Res.</i> , 58(17):3800-3805, 1998	
		ICHIMURA, T. <i>et al.</i> , Kidney injury molecule-1 (KIM-1), a putative epithelial cell adhesion molecule containing a novel immunoglobulin domain, is up-regulated in renal cells after injury, <i>J. Biol. Chem.</i> , 273(7):4135-4142, 1998	
		KATSURA, M. <i>et al.</i> , Up-regulation of L-type voltage-dependent calcium channels after long term exposure to nicotine in cerebral cortical neurons, <i>J. Biol. Chem.</i> , 277(10):7979-7988, 2002	
		LAI, L. and TAN, T. M., Role of glutathione in the multidrug resistance protein 4 (MRP4/ABCC4)-mediated efflux of cAMP and resistance to purine analogues, <i>Biochem. J.</i> , 361(Pt. 3):497-503, 2002	
		LAUNAY, P. <i>et al.</i> , TRPM4 is a Ca ²⁺ -activated nonselective cation channel mediating cell membrane depolarization, <i>Cell</i> , 109(3):397-407, 2002	
		LERMAN, C. <i>et al.</i> , Evidence suggesting the role of specific genetic factors in cigarette smoking, <i>Health Psychol.</i> , 18(1):14-20, 1999	
WJ		LOCKHART, D. J. <i>et al.</i> , Expression monitoring by hybridization to high-density oligonucleotide arrays, <i>Nat. Biotechnol.</i> , 14(13):1675-1680, 1996	
		MYERS, R. M. <i>et al.</i> , Detection of single base substitutions by ribonuclease cleavage at mismatches in RNA:DNA duplexes, <i>Science</i> , 230:1242-1246, 1985	
WJ		RANALDI, G. <i>et al.</i> , Intracellular distribution of labile Zn(II) and zinc transporter expression in kidney and MDCK cells, <i>Am. J. Physiol. Renal Physiol.</i> , 283(6):F1365-F1375, 2002	

Examiner Signature		Date Considered	02-16-06
--------------------	--	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/751,736
				Filing Date	January 6, 2004
				First Named Inventor	R. V. MARTINEZ <i>et al.</i>
				Art Unit	1642
				Examiner Name	Lei Yao
Sheet	3	of	3	Attorney Docket Number	031896-002000 (AM100927)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
cy		SEGMAN, R. H. <i>et al.</i> , Association between the dopamine transporter gene and posttraumatic stress disorder, <i>Mol. Psychiatry</i> , 7(8):903-907, 2002	
		SONG, E., RNA interference targeting Fas protects mice from fulminant hepatitis, <i>Nat. Med.</i> , 9(3):347-351, 2003	
		TENG, D. H. <i>et al.</i> , Mutation analyses of 268 candidate genes in human tumor cell lines, <i>Genomics</i> , 74(3):352-364, 2001	
		UTHOFF, S. M. <i>et al.</i> , T-cell receptor γ : a microsatellite marker for colorectal cancer, <i>Ann. Surg. Oncol.</i> , 9(1):88-93, 2002	
		VAN AUBEL, R. A. <i>et al.</i> , The MRP4/ABCC4 gene encodes a novel apical organic anion transporter in human kidney proximal tubules: putative efflux pump for urinary cAMP and cGMP, <i>J. Am. Soc. Nephrol.</i> , 13 (3):595-603, 2002	
		WYATT, C. N. <i>et al.</i> , Voltage-dependent binding and calcium channel current inhibition by an anti-alpha 1D subunit antibody in rat dorsal root ganglion neurones and guinea-pig myocytes, <i>J. Physiol.</i> , 502 (Pt 2):307-319, 1997, Erratum in: <i>J. Physiol. (Lond)</i> , 503(Pt 3):699, 1997	
		XU, L. L. <i>et al.</i> , PSGR, a novel prostate-specific gene with homology to a G protein-coupled receptor, is overexpressed in prostate cancer, <i>Cancer Res.</i> , 60(23):6568-6572, 2000	
		YAMADA, Y. <i>et al.</i> , Genomic variation in pancreatic ion channel genes in Japanese type 2 diabetic patients, <i>Diabetes Metab. Res. Rev.</i> , 17(3):213-216, 2001	
		YUAN, T. T. <i>et al.</i> , Cloning and genetic characterization of an evolutionarily conserved human olfactory receptor that is differentially expressed across species, <i>Gene</i> , 278(1-2):41-51, 2001	
		ZELCER, N. <i>et al.</i> , Steroid and bile acid conjugates are substrates of human multidrug-resistance protein (MRP) 4 (ATP-binding cassette C4), <i>Biochem. J.</i> , 371(Pt 2):361-367, 2003	
		Affymetrix GeneChip® Expression Analysis, Data Analysis Fundamentals	
		Affymetrix GeneChip® Expression Analysis, Technical Manual	
		PCR: A Practical Approach, McPherson, M. J. and Hames, B. D. (eds), IRL Press, at Oxford University Press, Inc., Oxford, England, 1991	
cy		PCR2: A Practical Approach, McPherson, M. J. and Hames, B. D. (eds), IRL Press, at Oxford University Press, Inc., Oxford, England, 1995	
		PCR Protocols: Current Methods and Applications, In: Methods in Molecular Biology, Vol. 15, White, Bruce Alan (ed.), Humana Press, Totowa, N.J. 1993	
		Partial International Search Report for PCT/US2004/015645, mailed 10/25/2005, 2 pages	

Examiner Signature	<i>cy</i>	Date Considered	2-6-06
--------------------	-----------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.